TRAINING AND TESTING SPECIFICATIONS FOR LEARNING DOMAIN #41 HAZARDOUS MATERIALS AWARENESS

January 1, 2006-2007

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I. LEARNING NEED

Peace officers need to know the risks presented by hazardous materials and their role in responding to hazardous materials incidents.

LEARNING OBJECTIVES

- A. Identify a hazardous materials incident
- B. Identify the specific challenges that are presented by incidents involving hazardous materials
- C. <u>Differentiate between Recognize</u> the roles and responsibilities of a First Responder at the <u>awareness level.</u>
 (8)
 - 1. Awareness level (9)
 - 2. Operational level (9)
- D. Identify the primary pathways in which a hazardous material can enter the human body, including:
 - 1. Inhalation
 - 2. Absorption
 - 3. Ingestion
 - 4. Injection
- E. Identify precautions peace officers can take to protect themselves from contacting a hazardous material

II. LEARNING NEED

Peace officers must become familiar with the indicators and warning systems that identify specific dangers of hazardous materials in order to respond safely and effectively to hazardous materials incidents.

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LEARNING OBJECTIVES

- A. Recognize the outward indicators, visible upon approach, that may indicate <u>of</u> a hazardous materials incident including, but not limited to: (9)
 - 1. National Fire Protection Association 704 (NFPA) (9)
 - 2. <u>Placards/Labels</u> (9)
 - 3. Physical Indicators (9)
 - <u>4.</u> <u>Witnesses or involved parties</u> (9)
 - $\underline{5.}$ Container(s) (9)
 - <u>Victim/Injuries</u> (9)
- B. <u>Identify common locations where hazardous materials may be located standardized sources of information of materials present at a hazardous incident, including:</u> (9)
 - 1. Emergency Response Guide (ERG) (9)
 - 2. MMaterial Safety Data Sheets (MSDS) (9)
 - 3. Shipping papers (9)
 - 4. Other documents (9)
- C. Identify the types of containers that are commonly used to store hazardous materials—(9)
- D. Identify the documentation that can be used as a source of information when identifying hazardous materials, including: (9)
 - 1. Shipping papers, invoices and bills of lading (9)
 - 2. Material Safety Data Sheets (MSDS) (9)
 - 3. Emergency Response Guidebook (9)
 - 4. Other documents (e.g., product information sheets, brochures, catalogs) (9)
- E. Identify the type of information provided by the DOT communication standards for hazardous materials (9)
- F. Identify how placards, labels and markings convey information regarding hazardous materials using the DOT system (9)
- G. Recognize the identity of hazardous materials using the Emergency Response Guidebook (ERG) (9)

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H. Identify the type of information provided by the NFPA 704 warning system for hazardous materials at fixed facilities (9)

III. LEARNING NEED

Peace officers must have a clear understanding of the need for safety, isolation, and notification when acting as First Responders at the scene of a hazardous materials incident.

LEARNING OBJECTIVES

- A. <u>Identify Recognize</u> the guidelines for safely <u>assessing and</u> approaching a hazardous materials incident (8)
- B. Recognize the factors involved in safely assessing the scene of an incident (3)—
- C. Recognize on scene safety guidelines for First Responders (3)
- \underline{DB} . Identify the different methods for factors to consider when establishing a perimeter around a hazardous area materials incident (8)
- EC. Identify the types of control zones at a hazardous materials incident, including:
 - 1. Exclusion zone
 - 2. Contamination reduction zone
 - 3. Support zone
- F. Identify the role of the Incident Command System at the scene of an incident (2)
- <u>GD</u>. Recognize <u>Identify</u> the information that should be communicated to dispatch from the scene of an incident, including: (8)
 - 1. Location of the incident
 - 2. Type of premises and/or vehicles involved
 - 3. Size and perimeter of the involved area
 - 4. Weather conditions
 - 5. Name of hazardous material involved, if known
 - 6. Information about placards, ID numbers, warning signs, etc.
 - 7. Safe entry and exit routes to and from the scene

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- <u>8.</u> EMS, if appropriate (4)
- HE. Identify the safety procedures to be followed before leaving the scene, (e.g., decontamination) (8)

LEARNING NEED

<u>IV.</u>

Peace officers need to know the indicators of an activation or deployment of a weapon of mass destruction and to safely respond to and treat as a crime scene. (10)

- Define general categories of WMD's ("B-NICE") (10)
 - biological/radiological (10)
 - nuclear incendiary (10)
 - 3. 4. chemical (10)
 - explosive (10)
- <u>B.</u> Additional hazards of WMDs (10)
 - 1. Secondary Device (10)
 - Secondary Decontamination (10)
 - <u>3.</u> Suspects (10)
- <u>C.</u> Response strategies (10)
 - Notification (10)
 - Initial evacuation (10)
 - 2. 3. 4. 5. 6. Establish perimeters (10)
 - Crowd Control (10)
 - Identify involved parties (10)
 - Preserve integrity of a crime scene (10)

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- <u>D.</u> <u>Decontamination</u> (10)
 - 1. Emergency Decontamination (10)
 - A. Gross contamination (10)
 - B. Remove outer clothing (10)
 - C. Flush with water (10)

<u>IVV</u>. REQUIRED TESTS

- A. The POST-Constructed knowledge test on the learning objectives in Domain #41.
- B. The POST-Constructed Comprehensive End-of-Course Proficiency Test will include learning objectives in Domain #41.
- C. The POST-Constructed comprehensive test for the Requalification Course will include learning objectives in Domain #41.

¥<u>VI</u>. REQUIRED LEARNING ACTIVITIES

- A. The student will participate in a learning activity designed to reinforce an understanding of first responder actions at the scene of a hazardous materials incident to include:
 - 1. Identification of the event as a hazardous materials incident
 - 2. Application of recommended safety precautions
 - 3. Use of the Emergency Response Guidebook (ERG) to determine the initial isolation and protective action distances
 - 4. The need to isolate the scene
 - 5. Notification considerations

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- B. The student will participate in a learning activity designed to reinforce an understanding of the indicators for determining the hazard potential of the suspected material to include:
 - 1. Placard
 - 2. Sign
 - 3. Warning label
 - 4. Any other indication

¥IVII. HOURLY REQUIREMENTS

Students shall be provided with a minimum number of instructional hours on hazardous materials from an instructor certified by the California Specialized Training Institute in accordance with Title 19 of the California Code of Regulations, Chapter 1, Subchapter 2, Section 2530 (a).

VIIVIII. ORIGINATION DATE

January 1, 2001

VIIIIX. REVISION DATE

 October 1, 2001
 January 1, 2006

 January 1, 2007
 January 1, 2007

 September 15, 2004
 January 1, 2007